



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLRL8-11L-CS1-46-840.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-13805  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 1/3/25  
[TEST DATE] 12/09/22  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] CLRL8-11L-CS1-46-840  
[TEST PROCEDURE] IESNA LM-79-19  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[FACTORED] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor  
[SEARCH\_COLORTEMP] 4000  
[TESTED]

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	7.40 ft
Luminous Width (90-270)	0.67 ft
Luminous Height	0.00 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3619	3958	4322
55	3975	4446	4956
65	4281	4848	5426
75	4177	4919	5357
85	4252	3902	3301

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1166	1166	1166	1166	1166
2.5	1192	1174	1168	1160	1152
5.0	1194	1178	1172	1164	1156
7.5	1198	1182	1178	1172	1166
10.0	1202	1188	1184	1182	1176
12.5	1208	1194	1194	1196	1190
15.0	1212	1200	1204	1210	1208
17.5	1216	1206	1216	1228	1228
20.0	1222	1214	1228	1248	1250
22.5	1226	1222	1242	1270	1274
25.0	1230	1228	1256	1290	1298
27.5	1232	1232	1270	1312	1324
30.0	1232	1236	1282	1332	1348
32.5	1230	1238	1292	1350	1368
35.0	1226	1238	1300	1366	1386
37.5	1218	1234	1302	1376	1398
40.0	1208	1226	1302	1382	1408
42.5	1192	1214	1294	1380	1406
45.0	1174	1198	1284	1372	1402
47.5	1150	1178	1266	1358	1390
50.0	1122	1150	1242	1338	1372
52.5	1088	1118	1208	1308	1344
55.0	1046	1078	1170	1270	1304
57.5	1000	1032	1126	1222	1254
60.0	950	980	1070	1162	1200
62.5	894	922	1010	1098	1128
65.0	830	856	940	1022	1052
67.5	760	782	856	940	962
70.0	674	702	774	838	860
72.5	588	612	688	730	750
75.0	496	520	584	614	636
77.5	406	434	476	506	524
80.0	326	354	376	402	404
82.5	250	268	270	276	266
85.0	170	168	156	138	132
87.5	82	68	48	36	28
90.0	22	16	16	16	12
92.5	124	66	36	36	32
95.0	230	196	130	72	68
97.5	312	306	294	280	280
100.0	386	402	428	488	526
102.5	458	492	542	656	720
105.0	536	580	644	790	876
107.5	624	658	728	912	1004
110.0	702	734	810	1012	1112
112.5	768	798	888	1090	1196
115.0	818	846	960	1148	1256
117.5	848	874	1008	1186	1290
120.0	862	890	1024	1210	1304
122.5	870	906	1020	1220	1310
125.0	878	924	1014	1206	1302
127.5	892	932	1014	1180	1266
130.0	900	926	1006	1142	1214
132.5	898	908	984	1090	1162

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	886	890	948	1038	1104
<b>137.5</b>	866	876	916	1004	1040
<b>140.0</b>	844	866	900	976	990
<b>142.5</b>	830	854	888	944	960
<b>145.0</b>	826	836	872	902	932
<b>147.5</b>	830	814	844	872	900
<b>150.0</b>	828	802	818	856	872
<b>152.5</b>	822	800	808	844	850
<b>155.0</b>	808	804	804	826	822
<b>157.5</b>	794	802	802	810	792
<b>160.0</b>	786	798	790	800	782
<b>162.5</b>	786	792	774	788	780
<b>165.0</b>	792	788	764	776	780
<b>167.5</b>	796	788	768	770	772
<b>170.0</b>	796	786	776	770	770
<b>172.5</b>	790	780	774	770	766
<b>175.0</b>	778	770	764	760	756
<b>177.5</b>	770	760	756	750	746
<b>180.0</b>	754	754	754	754	754

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	455.16	N.A.	4.40
0-30	1038.72	N.A.	10.00
0-40	1855.16	N.A.	17.80
0-60	3892.8	N.A.	37.40
0-80	5420.34	N.A.	52.10
0-90	5602.1	N.A.	53.90
10-90	5489.76	N.A.	52.80
20-40	1399.99	N.A.	13.50
20-50	2391.56	N.A.	23.00
40-70	2961.54	N.A.	28.50
60-80	1527.54	N.A.	14.70
70-80	603.64	N.A.	5.80
80-90	181.76	N.A.	1.70
90-110	902.13	N.A.	8.70
90-120	1876.26	N.A.	18.00
90-130	2820.9	N.A.	27.10
90-150	4122.83	N.A.	39.70
90-180	4794.53	N.A.	46.10
110-180	3892.4	N.A.	37.40
0-180	10396.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.34
10-20	342.82
20-30	583.56
30-40	816.43
40-50	991.56
50-60	1046.08
60-70	923.90
70-80	603.64
80-90	181.76
90-100	194.32
100-110	707.81
110-120	974.13
120-130	944.64
130-140	752.85
140-150	549.07
150-160	376.41
160-170	221.74
170-180	73.55

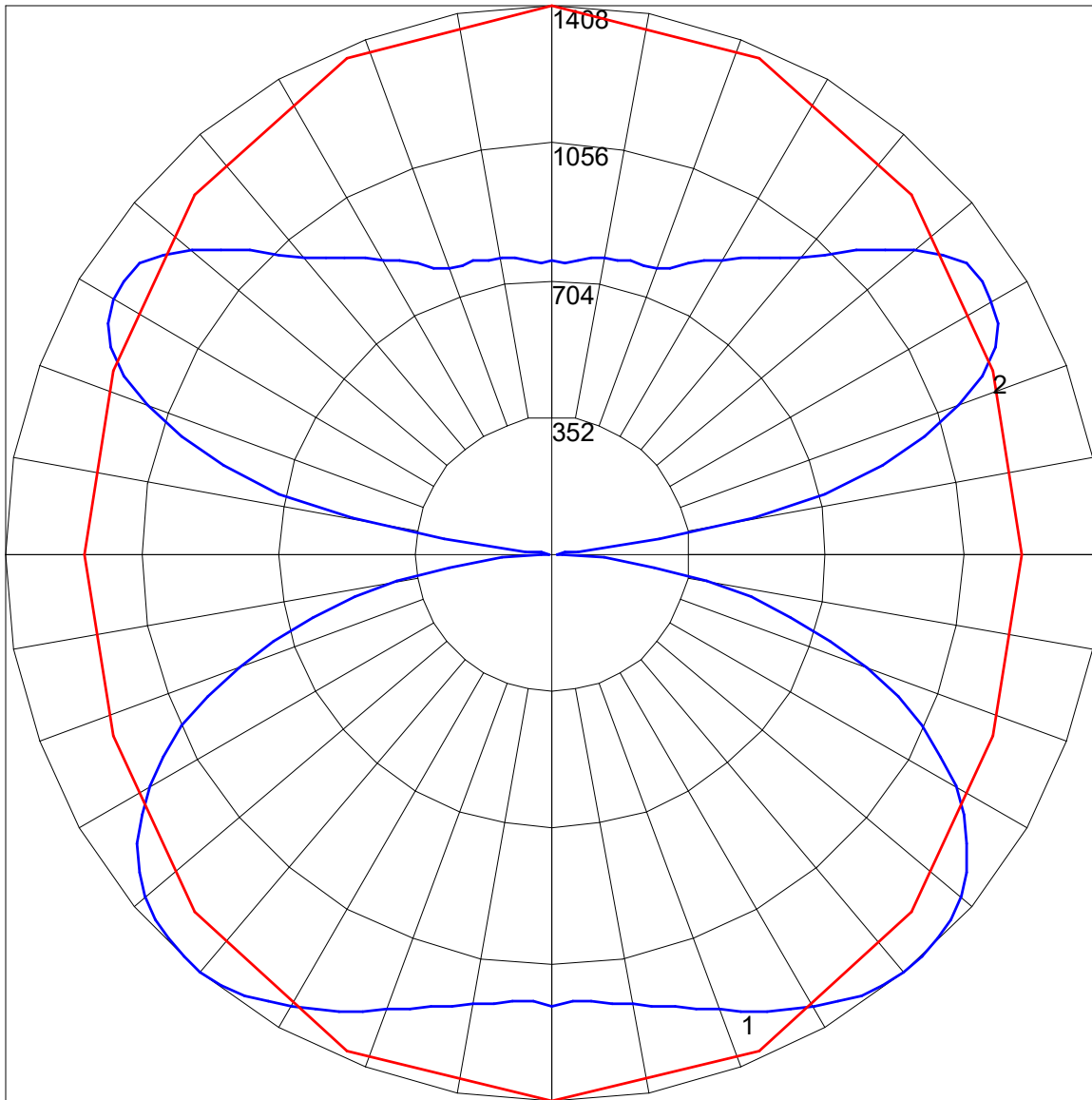
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	97	93	88	84	90	86	82	79	73	70	68	62	60	58	51	49	48	43
2	88	80	73	67	81	74	68	63	63	58	54	53	49	46	43	41	39	34
3	79	69	61	55	73	64	57	51	55	49	44	46	42	38	38	34	32	28
4	72	60	52	45	66	56	48	42	48	42	37	40	35	32	33	29	27	23
5	66	53	45	38	61	50	42	36	42	36	31	35	31	27	29	25	22	19
6	60	47	39	33	56	44	36	31	38	31	27	32	27	23	26	22	19	16
7	56	43	34	28	51	40	32	26	34	28	23	29	24	20	24	20	17	14
8	51	38	30	25	47	36	28	23	31	25	20	26	21	17	21	18	15	12
9	48	35	27	22	44	33	25	20	28	22	18	24	19	15	20	16	13	11
10	45	32	24	19	41	30	23	18	26	20	16	22	17	14	18	14	12	10

POLAR GRAPH



Maximum Candela = 1408 Located At Horizontal Angle = 90, Vertical Angle = 40  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)